The Scientific American Supplement. Index for Vol. 51.

JANUARY—JUNE, 1901.

The * Indicates that the Article is Illustrated with Engravings.

A

Acetylene, care required with.21022
Acetylene, cost of...........21217
Acetylene flame, efficiency....20945 21025
Acetylene in Europe.........21146
Acetylene in solution........*21322
Acetylene industry, the........21106
Acetylene, manuf. of...........21134
Acid, boracic, manuf. of.......21054
Acid, carbolic, solvent for....21230
Acid, oleic, experiments.......20974
Acid, sulphuric, arsenical.....20940
Acid, sulphuric, manufacture.21054
Acid, tartaric...............21198
Actinometer, Bellani's........*21237
Adapter, Grenault............*21274
Adobe, evolutions of the....*21071
Advertisements, American, in Germany 21037
Aelipile, Hero's.............*20928
Aepyornis, the..............*20966
Agapetes macrantha.........*21067
Agriculture, American........21296
Agriculture, automobilism in..*21078
Agriculture, English, changes.21081
Agriculture, experimental....*21296
Agriculture in Hawaii....... 21257
Agriculture in the U. S........21046 21068, 21077
Air, exclusion from solutions..20958
Air, ionized.................21162
Air pump, water.............21245
Air purifier, new.............21022
Air, Roentgenized............21162
Air, upper, movements of.....20919
Air, upper, temperature of....21064
Airship, Suter's.............*21203
Airship, Von Zeppelin's......*21138
Alcohol, action on metals.....21313
Alcohol, solid...............21102
Alcohol, state sale, Russia...*21034
Alloy, a new................21117
Alloy, zinc, useful..........20987
Alloys, rhodium..............20968
Almond cream................21166
Almonds, burnt..............21214
Altruism in the shop.........21251
Aluminium as an electrode....21220
Aluminium as electrode......21324
Aluminium, coating for......21054
Aluminium, soldering..21096, 21173
Aluminium, uses of..........*20916
Aluminothermy *20917
Amadou *21227
America, name, origin.......20937
America, real discoverer of...20937
Ammonia manufacture........21054
Amphitheaters, mechanism...*20938
Amphitheaters, Roman.......*20913
Angora, goat of......*21109, 21123
Animal diseases.............21177
Animal environment..........21288
Animals that clothe themselves *21290
Animals, extinct.............21097
Animals, invertebrate, marine..21148
Antiquities of Palestine......21123
Ants, white, Rhodesian.......21057
Ape, red-faced..............*21178
Apricots, dried..............21149
Aquarium, Paris Exposition...20915
Arch of Septimius..........*20959
Archaeology in past century..20961 20976
Archaeology of the past......20960
Argon and its companions.....21032
Arizona, a castle in..........21272
Armstrong, Lord............*20992
Army automobiles...........*20967
Arnica salve...............21036
Arsenic from phosphorus......21104
Art in industrial training....*21183
Artillery, museum of........*21126
Asphalt pavements..........21051
Asphaltum coatings..........21316
Asteroids, the..............20961
Astronomers, women 21076
Automobile competition, 1900.*21203
Automobile Expos. at Brussels.21235
Automobile fire-engine drill...20968
Automobile, gasoline, fast....*21282
Automobile, Panhard-Levassor.*21014
Automobile, pigeon..........*21275
Automobile plow............21078
Automobile show, Paris......*21142
Automobiles in the army....*21275
Automobiles, military.......*20967
Automobiles, speed registration *21090
Automobiling, economical.....21201
Automobilism in agriculture..*21078
Axle oil...................21229

B

Bacteria beds of sanitation...21253
Bacteria, effect of phys. agents.21121
Bagdad railway.............21248
Baking powders.......21070, 21166
Baku oil station, burning.....*21019
Balloon voyage across Baltic.*21179
Ballooning over the Baltic...21138
Barber shop, menace of......20924
Barges, screw..............*21186
Barograph, the.............*20978
Barometer, aneroid..........*20978
Barometer, Lambrecht.......*20963
Basques, language of.........21297
Bath tubs, ancient..........*21168
Battery, storage, Edison......21260
Batteries 20993
Bear, polar, the.............*20950
Bees and mathematics........21122
Beet sugar industry, the.....20933
Beetles, aquatic..............21262
Beirut, business in...........21132
Belt glue....................21118
Belt grease..................21070
Belts, leather, to clean.......20990
Berthelot, M...............*21280
Bicycles in Netherlands......21213
Blackfoot amusements........21276
Blacking, shoe...............21214
Blacking, shoe, Vienna.......21086
Blacking, shoemaker's........21246
Blacking, stove..............21180
Blood, human, new test for...21137
Blowing engine, gas........*21218
Boiler, Belleville, the........21120
Boiler, oleothermic..........*21147
Boiler tools................*21061
Books, scrap, handling.......21084
Bottle wax..................20958
Bottle wax, insoluble........20942
Brace and drilling post......*21089
Braga, a Roumanian drink....21022
Brick, paving, testing.......*20922
Brick and tile press.........*21146
Bridge, Rhine, new..........*21030
Bridges, ancient.............21093
Bridges, military...........*21190
Brochs, excavations of.......21193
Bronze varnish..............21102
Bronzing, soluble glass......21006
Building materials of future..21312
Burner, Bunsen..............21244
Burner for gasoline motors..*21315
Butter, coloring..............21118
Butter, fishy................21165
Butter, preservation of......21286
Butter, Russian, export......21229

C

Caesium compounds..........21211
Cables in Arctic waters......20988
Cables, submarine, influence..21156
Cadmium cell, defense of.....20993
Calcium carbide in Europe....21146
Calcimeter, Houdaille........*21226
Cameos 21072
Cameras, new..............*21274
Canada, unexplored..........21228
Canal, Nicaragua, shrinkage..20985
Canal, Suez, traffic of........21053
Canal, Suez, works of........21016
Canals of Mars.............21108
Cancel apparatus, stamp....*20951
Candle and soap manufacture.*21106
Canteloupes in Europe......21113
Capua amphitheater.........*20913
Car dumper for coal........*21074
Car ticket slot machine......21155
Caramel, manufacture of.....21182
Carbide industry, the........21106
Carbon papers..............21141
Carriage, automobile, show..*21142
Carriage, Lafayette's........*21081
Carriage, racing, Bolide......*21282
Carriages, motor, rights of....20967
Carthage, excavations at.....*21082
Cassava starch.............*21094
Castle in Arizona...........21272
Castle of Milan, the........*21138
Casts, plaster, tinted.........21178
Cathode-ray coloration.......20945
Cathode space, dark.........21120
Cattle of Porto Rico........*21206
Cell, cadmium, defense of....20993
Cell, polarizing, use of.......20993
Celluloid, mending..........21150
Celluloid, substitute for......21086 21230
Cement, decomposition of....21006
Cement for glass............21246
Cement for wood and tin.....21301
Cement, slag...............21237
Census guess, accurate.......21004
Ceresine paper..............20958
Cerigo, Island, discoveries at.*21319
Cerium 21173
Cheese, American, in Brazil...21117
Cherries, sirup of...........21036
Chlorine, preparation of......21054
Christmas Island............21193
Chronometers, magnetized....20993
Church, Ermington..........*21079
Church in Spoleto..........*21217
Cider, champagne........... 21180
Cider phosphate.............21180
Cinematograph, the.........*20951
Citizen, the................21272
Clock, earth, electric........20932
Clocks, cardboard..........*21115
Clockwork at Exposition.....*20919
Coal, American and Welsh...21245
Coal dust, consumption of....21203
Coal in Germany............21298
Coal kindlers...............21198
Coal mountain, Australian....20950
Coal, packwood.............21178
Coal, rapid handling of......*21058 *21040, *21074
Coal tar industry, the........20920
Coal, Sakhalin..............20987
Coating for aluminium.......21054
Coating for bright iron.......21070
Coating for casks............21310
Coating for heating pipes.....21006
Coating, weather proof.......21182
Coating, white, for wood.....21134
Coatings on iron............21180
Coffee in Annam............21011
Coffee drinking in the U. S....21046
Coherer action..............21323
Coherer, Marconi..........*21141
Coherer materials..........20945
Coherers for wireless teleg...21306
Coin-types, Greek..........*21083
Cologne formulae, new.......21196
Colorado Canyon, the........20949
Colorado foothills...........21108
Colors, fastness of..........*21237
Color industries, substances for 21096
Commerce of Great Lakes....21079
Composing mach., Calendoli...*21107
Condenser, Colwell.........*20986
Congo, transportation, on....21021
Constellation figures........*21083
Constipation of children......21036
Copper, production, Germany..21261
Corn cultivation............21077
Corn growing..............*21000
Corn kitchens in Germany....21165
Corn plaster...............21036
Corks, molding of..........21230
Corona, solar, theory........21293
Corona of the sun..........*21232
Cosmetics 21118
Crab, Scandinavian.........*20982
Crank bending machine.......21306
Cream, almond.............21166
Cream for kid leather........21166
Creme de noisette...........21006
Cruisers, new, armament of...21185
Cryptostemma, a new........*20939
Crystals, biology of..........20981
Current, distribution over cathode 21220
Currents, blaze, sign of life...21306
Currents, distribution of.....*21258 *21270
Currents, Gulf of St. Lawrence 21225
Currents, sine..............21306
Currents, solarization........21025
Currents, secondary, effects...21016
Currents, transverse.........21016
Cutting machine, elliptic.....*21131
Cyroplane, the.............*21025

D

Daylight, loss of............21102
Depression, industrial, British.21085
Developer, the modern........21180
Dew-point mirror...........*20978
Dielectrics in mag. field......21200
Discharge, stratified.........21025
Discharges, magnetic effect....21243
Discharge, stratification of....21153
Diseases, animals...........21177
Dispersion, electric..........21016
Dock at Corinto............21286
Dock equipment for coal.....*21040 *21058, *21074
Drilling machines, two......*21026
Drilling post and brace......*21089
Drills, radial...............*21287
Drinks of the world.........20924
Dugong hunting............*21238
Dusseldorf bridge..........*21030
Dust, mineral constituents....21193
Dust spots.................21262
Dust storms................21288
Dynamometer, Monaco.......*21063

E

Earth, figure of the.........*21137
Earth, revolution, demonstrating *21052
Ebonite substitute..........21150
Eclipse, solar..............*21231
Education, commercial, Saxony 20957
Education of the judgment, need of.................21013
Education, technical.........21085
Effluvium, electric..........21243
Eggs, ostrich...............*20996
Electricity, atmospheric variation 21025
Electricity, element, quantities.21305
Electrodynamics 21220
Elks, trick................*21286
Enameline printing..........20932
Enameling cast iron........*21099
Enamels, note upon.........20988
Engine, gas, 250 h. p........*21003
Engine, rotary, Colwell......*20986
Engine, steam, Branca's.....*20927
Engines, finish of............20967
Engines, gasoline, for vessels..21235
Engines of the Inchdune.....*21020
Engines of the Kleber.......*21031
Engineering process..........21184
Engineering progress...21115, 21128
Engineering progress, American 21100
Engineering, water, ancient...21024
England, trade with colonies..21075
Eskimo, the, in Alaska.......21297
Eskimos, in the land of......*21174
Esperanto, language..........21293
Essences, simple............21070
Ethiopian, change of skin.....21294
Exhibition, firemen's, Berlin..21142
Exhibition, Glasgow.........*21176
Experiment, Cremien's........21220
Explosive, inflammable........21118
Exports, German vs. American.20989
Exposition, Pan-American....*20943 21169, *21263
Eye in cave salamander.......21262

F

Fabrics, fireproofing..........21307
Face paints, theatrical........21036
Face powder................20990
Falls of Kiwira.............*21303
Faunas, Europe and Asia.....21192
Fencing-horse, the..........*21078
Fertilizer, sodium nitrate as...21097
Fertilizers 21077
Fiber, rafia................21131
Fire engine, automobile drill..20968
Fire escape, novel..........*21235
Fire lutes..................21230
Fire on shipboard, extinction..21213
Firemen's Exhibition, Berlin..21143
Fireproofing fabrics..........21307
Flies, spinning..............21123
Flight, mechanical experiments in 21004
Floors, spots on.............21089
Flowers, to keep fresh.......21301
Fly comets.................20958
Fly papers.................21229
Foothills of Colorado.........21108
Forestry, practical..........21116
Forge, portable............*21171
Formulæ, selected.....21036, 21166 21180, 21196, 21229
Forum, Roman.............*20959
Frame, photo-printing.......*21073
Frame, weaving, primitive...*21222
France, new country of.......21212
Freezing mixtures...........21036
Frogs for market............21057
Frue vanner...............*21283
Fruits, forms of.............21018
"Fuchsin," the term.........21102
Fuel appliances, Exposition...21133
Fuel, liquid................20985
Fuels, low grade............21149
Furnaces, electric...........21200
Furniture, American, in England 21101
Furniture, American, in Germany 21069
Furniture stain.............21198

G

Galileo museum............*21035
Game, naval war...........*21098
Galvanometer, resistance.....20945
Ganz system in London.......21164
Gas batteries...............20993
Gas blowing engine.........*21218
Gas engine, 250 h. p........*21003
Gases, blast furnace, on engines 21012
Gases, inert, in air..........21175
Gases, luminosity of.........21161
Gaslight and plant growth....20939
Gaslights, Welsbach.........21181
Gasoline, automobile, fast....*21282
Gasoline engines for vessels...21235
Gasoline motor, Kainz.......*21170
Gear, reducing, Agar's......*21250
Gearing, Grisson...........*21154
Gelatine reliefs.............21171
Glaciers, table..............21204
Glacier, Tête Rousse........*21066
Glanders 21177
Glasgow Exhibition.........*21176
Glass in confectionery........21217
Glass in Egypt..............20973
Glass, surface of, testing....*20940
Gloss starch for linen........21180
Glow, phosphores., in gases...21323
Glue, belt..................21118
Glycerine examination........21038
Glycerine test..............21310
Glycerine, toilet............21230
Goat, the Angora....*21109, 21123
Gods of the Filipinos.........21255
Gold of the Egyptians........21136
Gold, loss of...............21155
Gold mining, low grade.....*21283
Gold paint.................21026
Goods, American, imitations of.21100
Gravity measures............21243
Grease, belt................21070
Grease spots...............21180
Great Salt Lake railroad.....*21249
Greenland, the Eskimos of...*21174
Gums, photo...............21102
Gum solution, preservation....21102
Gum, spruce, harvest.........21112
Gun, naval, circuits..........21105
Gun, new, German army.....*21004
Guns, 7-inch vs. 6-inch for cruisers 21163
Guns, Saint Chamond........*21242
Gutta percha and rubber......21277

H

Hadrian, a letter of..........21001
Hair preparations............21196
Hair spirits.................20926
Hair tonic..................21036
Hair washes................21022
Hall effect, a curious.........20971
Hall of Illusions, Paris......*21003
Hammer, pneumatic.........*21130
Handwork in the school.....*21152
Harbor, new, in Norway......21177
Harness composition.........20926
Haswell, C. H..............*21199
Havana, preventive for yellow fever 21252
Hawaii, agriculture..........21257
Haymaking 21077
Heart of Rouen............*21051
Heat insulator..............20958
Herbarium cases............*21212
Hectographing, plate for......21182
Hichborn, Rear Admiral......21052
History, natural, and medicine.21044
History, natural, study of.....21065 21076
Hop industry, Oregon........21113
Horn, to soften.............21070
Horse, fencing, the..........*21018
Horse power hour, cost.......21107
Hospitals of Japan...........21280
House refuse, disposal........21104
Huts, primitive, Ostia.......*21007
Huxley, T. H...............21144
Hydrogen peroxide solution...21182
Hypothesis, corpuscular......21228

I

Ice age, what was the?.......21032
Ice, slipping on.............21198
Illumination at Pan-American Exposition *20943
Images, magnetic............21169
Immigration figures..........21164
Impact machine............*20922
Inch, the miner's............21234
Inchmarlo, engines of.......*21020
Independence, yacht........*21301
India, tea in...............21268
Induction coil, Guerre.......*21187
Induction in open circuit.....21324
Induction, photo-chemical.....21280
Industrial organization, Germany 21021
Industries, electric, Bangkok..20941
Ink, indelible...............20990
Ink for zinc labels...........21036
Insects, anatomy of.........20965
Insects and malaria..........20981
Insects, destructive.........*21207
Insects, resistance of........*21318
Instruments, hot-wire........21162
Interrupter, Wehnelt.........20982
Invention, progress of........21060
Inventors, women 21241
Ions, flame, velocity..........21243
Ions by collision............21242
Ions, velocity of.............21323
Iron and steel, American......20997
Iron, bisulphide, preparation..20974
Iron, bright, coating for......21070
Iron cutting, electric.........20924
Iron, diffusion in air.........20971
Iron, enameling............*21099
Iron, pig, the world's........21043
Iron, protection of...........21006
Iron, removal of rust from....21022
Iron, sheet, leaded...........21214
Iron structures, protection....21307 21315
Iron, tempering of...........21161
Iron and steel, German.......20941

J

Jade, etymology of...........21036
Japan, commerce of..........21306
Japan, hospitals of...........21280
Jig, gold..................*21283

K

Kerosene, intensive lighting..*20946
Kiwira, Falls of............*21303
Kleber, engines of the.......*21031
Kondeland, East Africa......*21302
Krupp works...............*21248

L

Labels, zinc, ink for..........21036
Laboratory devices..........21244
Lac industry, Assam...21031, 21105
Lacquer, spirit..........20926
Lake Nicaragua, water supply.20932
Lakes, Great, commerce of....21079
Lamp, living..........*21298
Lamp, osmium..........21179
Lamp, the Kitson..........*20946
Language, international..........21293
Lanolin toilet cream..........21118
Lanolin, white..........21180
Lead, deep-sea..........*21062
Lead, luminous..........21246
Leather, Australian..........20953
Leather color, black..........20958
Leather, kid, cream for..........21166
Leather paint, white..........21229
Leather paste..........21246
Leather varnish..........21229
Leech, the..........21044
Left and right handedness.....21228
Letters from Spain, fraudulent.20957
Light equal to sunlight..........21246
Light, ultra-violet..........20971
Lighting by microbes..........*21298
Lighting, electric, for cars....21026
Lightning flashes, intensity....21200
Linoleum, demand for..........21299
Linseed oil, bleaching..........21054
Locomotive, agricultural.....*21078
Locomotive, Creusot..........*21147
Locomotives at the Exposition..........*21042
Locomotive, express, Italian..*20947
Locomotives, miniature..........21012
Lubin toilet water..........20942
Lubricants, solid..........21301
Lumber, American, in France..21149
Lumber exports, Canadian....21021

M

Machine to raise water......*21251
Machinery, noise, deadening...21203
Machinery, painting of..........21170
Machinery and the man..........21234
Machinery trade, Germany's...21293
Magnetism, remanent..........21162
Magnetostriction, torsional....21161
Magnets, testing of..........21200
Malaria and insects..........20981
Mammals and reptiles..........21032
Man, extinct, the..........*21123
Manchuria, Russians in......*21136
Manna, olive-tree..........21136
Mantles, self-igniting..........21118
Mantles, Welsbach..........21181
Maple sugar industry, Vermont..........*21056
Mars, canals of..........21108
Mars, signaling to..........21267
Mass, luminous..........20942
Mass, a plastic..........21070
Match trust, Scandinavian....21286
Matches, safety..........20926
Materials, testing..........*20922
Meat packing..........21077
Medicine, degrees in, German..20941
Medicine and natural history..21044
Medicine of 19th century.....20980
20996
Medicine, preventive..........21252
Mesopotamia, voyage in......*21067
Messages, wireless, separation.20993
Metallurgy of aluminium.....*20916
Metals, passive state of.......20977
Meteorological instruments...*20962
*20978
Meteorology, congress of......20935
Microbes, Dr. Metchnikoff.....21276
Microbes, lighting by..........*21298
Micrometer, electric..........21163
Milan, castle of..........*21138
Milk adulteration..........21165
Milk stains..........21180
Mill machinery for Turkey....21213
Mill, portable, old..........*21307
Milling machine, new.......*21275
Millstones, living..........21205
Mining, gold, low grade......*21283
Mining river channels..........21189
Mining statistics, world's.....21189
Mixtures, electro-capillarity...21016
Mohair *21111, 21124
Mono-railway, Behr..........21187
Monte Cassino amphitheater..*20914
Montmartre inclined railway.*21250
Mosaic, art of..........21088
Mosquitoes and malaria.......21044
Mosquitoes, extermination.....20921
Mosquitoes, remedy against...21037
Mosquitoes as transmitter of organisms..........*21035
Motor, Bolide..........*21282
Motor for carriages..........*21171
Motor, gasoline, Kainz.......*21170
Moth preventives..........21150
Mountain, coal, Australian....20950
Mouth water, antiseptic.......21230
Mowing machine, automobile.*21078
Museum of artillery..........21126
Museum, Field Columbian....*21168
Museum, Galileo..........*21035
Mustards, prepared..........21009

N

Naphtha industry, Russian....21100
New Guinea..........*20934
New York State survey.......21162
Nicaragua Canal, shrinkage...20985
Nicaragua, lake, water of.....20932
Nipples, rubber, how to pierce.20942
Nut-cracking, electric..........21188
Nuthatch, stronghold of......21289

O

Oasis, life in an..........21192
Office furniture in Germany...21101
Oil, axle..........21229
Oil cake feeding and butter....21150
Oil fields of Baku..........21124
Oil industries, substances for..21096
Oil, linseed, bleaching..........21054
Oil, poppy seed, bleaching.....21054
Oil skins..........20995
Oils, effervescent..........21086
Oils, lubricating, solid..........21301
Oils, plant, as food..........21217
Orange, crop, California......21113
Ore hoist, Brown..........*21058
Ores, sulphureted, treatment..21322
Ores, thermo-electric..........21200
Oscillations, electric..*21132, *21140
*21166
Osmium lamp..........21179
Ostriches, prehistoric........*20966
Ozone as an antiseptic.......21134

P

Pacific Islands, annexation....20925
Packing goods for export.....21300
Packwood turned into coal....21178
Paint, gold..........21026
Paint, house, durable..........21134
Paint, white, for leather.......21229
Paints, face..........21036
Palestine, antiquities of.......21123
Palms, large, moving..........*21211
Pan-American Exposition....*20943
21169, *21263
Papers, carbon..........21141
Paper, cerasine..........20958
Paper, exporters, hints to.....20973
Paper, printing, electrical.....21041
Paper, testing of..........*21010
Paper, waterproof..........20942
Papers, fly..........21229
Parchment substitutes..........21230
Parisienne, statue..........*21104
Parquet floors, spots on........21089
Paste for leather..........21246
Patchouli essence..........21070
Patent system, American.....21008
Pavements, asphalt..........21051
Pavilion, the Creusot........*21158
Pearl powder..........20990
Peat, uses of..........21221
Peat wood, Austria..........21117
Peking, looting of..........*21046
Pelvimetry process, new.....*21210
Pendulum, the Berget.......*21052
Perfumery industry, German..21165
Perfumes, simple..........21070
Perfumes, violet..........20968
Persia, commercial condition..20951
Perspiration stains..........21284
Petroleum, chemical action of..21006
Petroleum, deodorized..........21246
Petroleum, increase in price...20946
Petroleum turbine..........*21203
Petroleum wells in Mexico....21213
Phosphate, cider..........21180
Phosphates bicalcic and tricalcic..........21120
Phosphorus into arsenic.......21104
Photographic novelties.......*21274
Photographone, the..........21324
Photography, progress in.....21312
Photography, trichromatic...*21028
21049, 21056, 21073
Phototherapy 21215
Pianos in Brazil..........21005
Pigments, iron oxide..........21307
Pipette device..........21244
Plague, diagnosis of..........*21303
Plant, a puzzling..........20961
Plant oils as food..........21217
Plant stems underground.....21066
Plants, poisonous, of our bodies..........21093
Plaster casts, tinted..........21178
Plaster of Paris, coloring.....21214
Plaster of Paris, preparation..21301
Plasticity, spring on..........20915
Plates, sensitive, electric traces on..........20945
Platinum production..........21246
Plow, automobile..........*21078
Plow, electric, Borsig..........20988
Polish, liquid..........21070
Polishes 21054
Polishing agent, new..........21134
Polonium, spectrum of........21019
Polymeter, the..........*20998
Poppy seed oil, bleaching......21054
Port Antonio, steamship.....*21314
Port Royal, steamship.......*21314
Porto Rico, cattle of..........*21206
Potassium chlorate, explosion..20915
21032
Potato starch..........*21094
Potatoes, German, for America.21318
Potential, high, phenomena...*21187
Power, horse, net cost of......21107
Prescriptions, old..........21044
Press, mill, electric..........*21287
Printing, enameline..........20932
Printing machines at Exposition..........*21090
Products, American, in Germany..........21285
Prosperity, American..........21053
Pulp mills, new..........21229
Punching press, electric......*21243
Putty, waterproof..........20990
Pyrograph, Magnim..........*21091

R

Rabies 21177
Radiations, Becquerel, energy..20971
Radiations, unsuspected......20952
Radio-activities, secondary....21220
Radiophone, electro..........21200
Radium rays..........21242
Radium rays, thermo-lum.....21169
Radium, spectrum of..........21019
Rafia fiber..........21005, 21131
Railroad contract, Nicaragua..20925
Railroad, Great Salt Lake....*21249
Rails, re-rolled..........21057
Railway, Bagdad..........21248
Railway, British Columbia, new *21030
Railway, electric, for Leicester.21053
Railway, inclined, Montmartre..........*21250
Railway, Mono, Behr..........21187
Railway, ship, Anderson.....*21143
Railway, Siberian, progress...21059
Railways, snow upon.........*21114
Railway, Spanish, new........21069
Railway, suspended, Loschwitz.21024
Railway, Tehuantepec.......*21254
Railway, Trans-Australian...*21199
Railway, Trans-Siberian......20948
Railways, wooden..........*21128
Rain, red..........21288
Raspberry juice, artificial.....21006
Rat, indictment of the..........21209
Rays, Becquerel, temperature..21323
Rays, invisible, effect of.......21220
Rays, photo-electric..........20945
Rays, radium..........21169
Rays, X, transp. of matter for.21196
Receipts..20926, 20942, 20958, 20974
20990, 21006, 21022, 21038, 21054
21070, 21086, 21118, 21134, 21150
21182, 21198, 21214, 21230, 21246
21301
Reducers, photo..........21301
Refrigerators in Brazil..........21101
Rewards, scientific, France....21051
Rhodium alloys..........20968
Rifle, new, German army.....*21004
Rocks, flow of..........20949
Rocky Mountains, geology of..20948
Rome, letter from..........21298
Rosewood, imitating..........21301
Rotation, compulsory........*21011
Rouen, the heart of..........*21051
Rubber goods, durability......21182
Rubber in Guatemala..........21005
Rubber and gutta percha......21277
Rubber from the Hule plant...21037
Rubber substitute.....21197, 21278
Rubber tubing, non-inflammable..........21117
Russia, industrial development.21089
Russia, trade with..........21075
Radiophone, loud speaking....21287
Radium rays, action of.......21293

S

Safe, protection for..........21150
Sahara desert, trade in.......21125
Salt Lake, Great..........21204
Salt mining in China.........*21202
Salts, maximum, use..........21301
Salve, arnica..........21036
Salve, hoof..........21229
Samarium, new metal..........21052
Samoa, development of.......21053
Sandarac, imitation..........21150
Sanitation in a Roman colony.21175
Saturn, rings of..........20961
Saw for cold iron..........*21107
Schools, handwork in........*21152
Science and agric. experiment.*21296
Science, electrical.....20945, 20971
20993, 21016, 21025, 21161, 21169
21200, 21220, 21242, 21293, 21305
21323
Science, recent..20964, 20952, 20981
Science, social service..........21239
Scrap book..........21244
Scrap books, handling..........21084
Screw machine, automatic....*21315
Secrets, stolen..........21119
Seeds, distribution of.........20939
Seismology 21174
Seismology in Japan..........21238
Seleo, natives of..........*20934
Self-induction interrupter.....21220
Sensations, visual..........21210
Sepia 21219
Serviettes magiques..........20926
Sewage, London, treatment....20945
Shamrock II..........*21219
Shipbuilder, education of.....21092
Ship railway, Anderson.......*21143
Ships, Antarctic..........21225
Shoe blacking..........21214
Shoe blacking, Vienna........21086
Shoes, American, in France...21197
Shoes, Parian white for.......21229
Shooting, ionic..........20993
Siam, teak industry..........21281
Signaling to Mars..........21267
Signaling, searchlight..........21169
Signs, electric, changeable...*21087
Silk, artificial..........21179
Silk, production of China.....21007
Silkworm, the..........*20998
Silver, allotropic forms.......21136
Silver, forms, allotropic......21251
Silver, standard..........21274
Sirup of cherries..........21036
Skins, oil..........20995
Slag cement..........21237
Slag, utilization of..........20926
Slot machine, car tickets......21155
Snow fenders..........*21114
Snow upon railways.........*21114
Soap and candle manufacture.*21106
Soap free alkali in..........20968
Soaps, metallic..........20926
Soaps, toilet..........21086
Society, Geological, American..20948
Sodium nitrate as fertilizer...21097
Soles, shoe, preservation......21150
Soot, mineral constituents.....21193
Sophora Japonica..........*20983
Sound locator..........*21196
Sounding apparatus, new....*21031
Southwest pass, improvement.*21185
Spark, electric, pressure in....21162
Spectograph, Mills..........*21122
Spectroscope, Keeler and.....20961
Spectrum of radium..........21019
Speed indicator..........*21218
Spheres, harmony of..........21284
Spots on silk, removal........21180
Spruce gum harvest..........21112
Spruce, weeping..........20983
Spunk *21227
Stain, furniture..........21198
Stamp canceling apparatus...*20951
Stamps, postage, changing....21153
Starch, estimation of..........21070
Starch, gloss, for linen.......21180
Starch, potato and cassava...*21094
Stars, variable..........21226
Stations, agricultural........*21296
Statue of Parisienne.........*21104
Statues from the sea.........21275
Statues, Greek, discovery....*21319
Statues, Greek, discovery of...21159
Steam turbine, the..........*20927
Steamship lines, Panama.....21007
Steamship Port Royal........*21314
Steamships, reporting.........21200
Steatite paint..........20958
Steel, American, Germany.....20957
Steel and iron, American......20997
Steel, new, German..........21165
Steel, oxidized..........21038
Steel production by electricity.21165
Steel, the world's..........21043
Stereoscope, pocket..........*20988
St. Mark's, Venice..........21104
Stonehenge, saving..........21113
Stones, precious, testing......21165
Storage, cold, India..........21117
Stove blacking..........21180
Streams, self-purification......21045
Sucrol in foods, detection.....21034
Suez Canal, traffic of..........21053
Suez Canal, works of..........21016
Sugar, beet, industry..........20933
Sugar beet waste..........21245
Sugar, maple, Vermont.......*21056
Sugar plantation, Hawaii.....21204
Surface contact system.......*21323
Sulphur in Russia..........21117
Sun, eclipse of..........*21231
Surgery automobiles..........*20967
Sweets, glass in..........21217
Swordfish and tunny.........*21159
Syria, ancient, trade..........20914

T

Taormina *21119
Tar, coal, industry..........20920
Tar dye stains..........21134
Tar oil for wood..........21310
Tariff, Costa Rican..........21321
Tariff legislation, Germany....20925
Taxameter, the..........*21171
Tea in Annam..........21001
Tea shops of Bombay..........21286
Teak industry of Siam.........21281
Telegraph cables, submarine...21156
Telegraph, page printing.....*20984
*20994
Telegraph, Pollak-Virag......*20930
Telegraph, printing, Hughes..*21162
Telegraph, type-printing......21181
Telegraph, weather..........*20979
Telegraphone, the..........*20944
Telegraphy, wireless, exciters..21293
Telegraphy, wireless, syntonic.*21304
*21269, *21291
Telephony, long-distance.....*20973
Telephone, manomet. study....21306
Telephone transmitter patent..21080
21220
Telephone wires, bare, on snow 21200
Telephony, wireless..........21220
Temples, Greek, orientation...*21189
Tea in India..........21268
Tehuantepec railway..........*21254
Termites, Rhodesian..........21057
Testing apparatus..........*20922
Tête Rousse glacier..........*21066
Tile and brick press..........*21146
Tinder *21227
Tin plates, American..........21197
Toads and snakes in medicine..21044
Toilet cream, lanolin..........21118
Toilet powders..........20990
Toilet water, Lubin..........20942
Tomatoes in Europe..........21113
Tools, boiler..........*21061
Tools of marine biologist.....*21062
Toothache remedy..........21036
Touchwood *21227
Tower, Temple..........*21072
Towers, leaning, Britain's....*21079
Toy industry, German..........21181
Theater, the Farnese..........*21007
Theory, electro-capillary.....21079
Thermograph, a..........*20962
Thermohygroscope *20979
Thermo-magnetic effect.......21324
Thermometer, centigrade.....*20962
Traction, electric, Kingsland..*21323
Traction, mechanical, Paris...21220
21236
Trade in ancient Syria.......20914
Trade, balance of our..........21244
Trade, English, with colonies..21075
Trade, foreign, survey of......21172
*21194
Trade in Malta..........21069
Trade opportunities, Mexico...21261
Trade reputation, American...20973
Trade notes and receipts......21086
21102, 20942, 20974, 21118, 21134
21150, 21182, 21198, 21214, 21230
21246, 20926, 20958, 20990, 21006
21022, 21038, 21054, 21070, 21301
Trade with Russia..........21075
Trade methods, German........21285
Trade suggestions, consular...20925
20957, 20989, 21005, 21021, 21037
21053, 21069, 21085, 21101, 20941
20973, 21117, 21132, 21149, 21165
21181, 21197, 21213, 21229, 21245
21261, 21277, 21285, 21300, 21321
Trades, dusty, dangers.......21019
Trades unions, English........21069
Train, good roads..........21249
Trainmen, instruction of......21218
Trains, express, speed of......21129
Tramways, electric..........21051
Tramways, electric, Canary Islands 21213
Tramways, Zurich..........20957
Transmitter, Berliner patent..21080
Trap, deep-sea, Monaco.......*21062
Trap, electrical..........*21063
Trawls, Mónaco..........*21063
Trees, pendulous..........*20983
Trolley age, the..........21180
Trolley, underground........*20918
Trusts, influence of..........21128
Tuberculosis 21177
Tubes, Crookes..........21027
Tubing, seamless..........*21012
Tunneling for water..........21186
Tunny and swordfish.........*21159
Turbines at the Exposition...*20923
Turbine, petroleum..........*21203
Turbine, steam, the...20969, *20927
*20953
Turf fiber, uses of..........21181
Typewriters in Germany......21181
Typewriters in Netherlands...21101

U

United States as exporter.....21155

V

Vaccination statistics........21195
Vacuum apparatus..........*20987
Valleys of Ohio basin.........20949
Valves, safety, inhabited.....*21015
Varnish, bronze..........21102
Varnish, leather..........21229
Varnish-like polishes..........21054
Varnish stains..........21180
Varnish from wood..........21182
Vehicles, motor, rights of.....20967
Velocities, ionic..........21323
Velocity, rotary, indicator...*21218
Vespucci, in justice to........20936
Victoria, Queen..........*20975
Vine in New South Wales.....21212
Vines, American for Germany..21165
Vintage of 1900, Germany.....21165
Violet perfumes..........20968
Violet powder..........20990
Viscin 21150

W

Wadding, aromatic..........21022
Wares, glazed, poisonous......20956
Warts, remedy for..........21198
Water engineering, ancient....21024
Water for irrigation, storage..21036
Water raising machine......*21234
*21251
Water softening process.......21170
Water, sterilization of........21035
Waterworks, a model system of *21050
Waterworks, Roman..........21024
Waves, electric......*21132, *21140
*21160, 21220
Waves, electric, in water.....21243
Wave shock for power........21134
Wave, what is a?..........21250
Waves, wireless..........21200
Wax, bottle..........20958
Wax, bottle, insoluble........20942
Weather telegraph..........*20979
Weights, atomic..........21220
Whale, right, Berlin's.......*21299
Wheat cultivation..........21077
Woman astronomers..........21076
Women, German, vocations....20967
Wood exports from Victoria...20925
Wood, peat, Austria..........21117
Wind recording apparatus....*20963
Windows, opaque..........21102
Window, show, sweating of....20974
Wines, alcoholic strength.....21162

X

Xylolith 21102

Z

Zinc alloy, useful..........20987
Zinc poison in hosiery.........21321

43%

10013 21

901.

•21323
.21220
21236
.20914
.21244
.21075
.21172
•21194
.21069
.21261
.20973
.21086
21134
21230
21006
21301
.21075
.21285
.20925
21037
20941
21165
21245
21321
.21019
.21069
.21249
.21218
.21129
.21051

21213
20957
21080
21062
21063
21063
20983
21180
20918
21128
21177
21027
21012
21186
21159
20923
21203
20927
20953
21181
21181
21101

21155

21195
20987
20949
21015
21102
21229
21054
21180
21182
0967
1323
1218
0936
0975
1212
1165
1165
0968
0990
1150

1022
0956
1198
1024
1036
1234
1251
1170
1035

1050
1024
1140
1220
1243
134
250
200
958
942
979
220
299
077
076
067
025
17
[illegible]
02
74
62

7
1
21